

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/02
Date Received: 10/10/02
Project: Metro Self Monitor, PO# 68841
Date Extracted: 10/22/02
Date Analyzed: 10/22/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M68841 210081-01	1.6	1.5	1.8	0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 210143-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.51	0.53	4	0-20
Copper	mg/L (ppm)	0.60	0.61	2	0-20
Nickel	mg/L (ppm)	0.55	0.56	2	0-20
Zinc	mg/L (ppm)	0.06	0.11	a	0-20

Laboratory Code: 210143-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.51	89	80-120
Copper	mg/L (ppm)	2	0.60	90	80-120
Nickel	mg/L (ppm)	4	0.55	89	80-120
Zinc	mg/L (ppm)	2	0.06	91	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	95	96	80-120	1
Copper	mg/L (ppm)	2	92	94	80-120	2
Nickel	mg/L (ppm)	4	94	96	80-120	2
Zinc	mg/L (ppm)	2	94	94	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 24, 2002

DUPLICATE COPY

INVOICE # 02ACU1024-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# 68841 - Results of testing requested by
Gerry Thompson for material submitted on October 10, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID # (b) (6)

1 210081

SAMPLE CHAIN OF CUSTODY

1 N.E. 10/10/02 BT2

Send Report To

G. Thompson

Company

Alaskan Copper Works

Address

628 S. Hancock St

City, State, ZIP

SEATTLE WA 98134

Phone #

206-382-8379

Fax #

206-382-4509

SAMPLERS (signature)

PROJECT NAME/NO.

METRO Self Monitor

PO #

M68841

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions


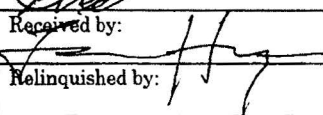
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Org. Comp. 2				
M68841	01	10/10/02	10:00	A20	1											

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	G.A. Thompson	ACLW	10/10/02	10:54 am
Received by: 	Laura Hooper	F&B, Inc.	↓	↓
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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October 24, 2002

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 10, 2002 from your Metro Self Monitor, PO# 68841 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU1024R.DOC